



FortiSwitch - Release Notes

3.5.3

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FortiSwitch 3.5.2 Release Notes

11-353-410990-20170630

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Change Log

| Date | Change Description |
|------------|---|
| 2017-04-04 | Initial release. |
| 2017-04-07 | Revision 1: <ul style="list-style-type: none">• Added Known Issue #415380.• Updated the document ID to 11-353-410990-20170404. |
| 2017-06-30 | Added a fixed issue (405123). |

Introduction

This document provides the following information for FortiSwitch 3.5.3 build: 0265

- [Supported models](#)
- [Special Notices](#)
- [Upgrade Information](#)
- [Product Integration and Support](#)
- [Resolved Issues](#)
- [Known Issues](#)

See the [Fortinet Document Library](#) for FortiSwitch documentation.

Supported models

FortiSwitch 3.5.3 supports the following models:

| | |
|---------------------------|---|
| FortiSwitch | FSR-112D-POE, FSR_124D, FSW-108D-POE, FSW-124D, FSW-124D-POE, FSW-224D-FPOE, FSW-224D-POE, FSW-248D-FPOE, FSW-248D-POE, FSW_248D, FSW-424D, FSW-424D-FPOE, FSW-424D-POE, FSW-448D, FSW-448D-FPOE, FSW-448D-POE, FSW-524D-FPOE, FSW-524D, FSW-548D, FSW-548D-FPOE, FSW-1024D, FSW-1048D, FSW-3032D |
| FortiSwitch Rugged | FSR-112D-POE, FSR-124D |

What's new in 3.5.3

FortiSwitch 3.5.3 includes the following features and enhancements:

- 802.1x improvements (FortiSwitch Port Security Policy Framework)

Special Notices

Supported Features

Features support by model.

FortiSwitch 100

| Feature | FSW-108D-POE | FSR-112D-POE | FSW-124D | FSW-124D-POE | FSR-124D |
|--|--------------|--------------|----------|--------------|----------|
| 48 port lag support | | | | | |
| 801.1x port mode | ✓ | ✓ | ✓ | ✓ | ✓ |
| 802.1x MAC base security mode | | | ✓ | ✓ | ✓ |
| ACL | | | ✓ | ✓ | ✓ |
| Auto module max speed detection & notification | | | | | |
| CPLD Software Upgrade Support for OS | | | | | |
| DHCP relay feature | | | ✓ | ✓ | ✓ |
| DHCP Snooping | | | ✓ | ✓ | ✓ |
| HTTP REST APIs | ✓ | ✓ | ✓ | ✓ | ✓ |
| HW based ECMP | | | | | |

| Feature | FSW-108D- POE | FSR-112D- POE | FSW-124D | FSW-124D- POE | FSR-124D |
|--------------------------------------|------------------|------------------|----------|------------------|----------|
| IGMP Snooping | | | ✓ | ✓ | ✓ |
| IP conflict detection & notification | ✓ | ✓ | ✓ | ✓ | ✓ |
| LAG min-max-bundle | ✓ | ✓ | ✓ | ✓ | ✓ |
| LLDP transmit | ✓ | ✓ | ✓ | ✓ | ✓ |
| LLDP-MED | ✓ | ✓ | ✓ | ✓ | ✓ |
| Loop-guard | ✓ | ✓ | ✓ | ✓ | ✓ |
| MAC-IP Binding | | | | | |
| POE-pre-standard detection | ✓ | ✓ | | ✓ | |
| QOS: 802.1p support | | | ✓ | ✓ | ✓ |
| SFLOW | ✓ | ✓ | ✓ | ✓ | ✓ |
| Software Routing Only | ✓ | ✓ | | | |
| Static BFD | | | ✓ | ✓ | ✓ |
| Static L3/HW based routing | | | ✓ | ✓ | ✓ |
| Storm Control | ✓ | ✓ | ✓ | ✓ | ✓ |
| Virtual Wire | | | ✓ | ✓ | ✓ |
| vlan tag by ACL | | | ✓ | ✓ | ✓ |
| vlan tag by MAC/IP/802.1x | ✓ | ✓ | ✓ | ✓ | ✓ |

FortiSwitch 200

| Feature | FSW-224D- POE | FSW-224D- FPOE | FSW-248D | FSW-248D- POE | FSW-248D- FPOE |
|---|------------------|-------------------|----------|------------------|-------------------|
| 48 port lag sup- port | | | ✓ | ✓ | ✓ |
| 802.1x port mode | ✓ | ✓ | ✓ | ✓ | ✓ |
| 802.1x MAC base security mode | | ✓ | ✓ | ✓ | ✓ |
| ACL | | ✓ | ✓ | ✓ | ✓ |
| Auto module max speed detection & notification | | | | | |
| CPLD Software Upgrade Sup- port for OS | | | | | |
| DHCP relay fea- ture | | ✓ | ✓ | ✓ | ✓ |
| DHCP Snoop- ing | | ✓ | ✓ | ✓ | ✓ |
| HTTPS REST APIs | ✓ | ✓ | ✓ | ✓ | ✓ |
| HW based ECMP | | | | | |
| IGMP Snoop- ing | | ✓ | ✓ | ✓ | ✓ |
| IP conflict detection & notification | ✓ | ✓ | ✓ | ✓ | ✓ |
| LAG min-max- bundle | ✓ | ✓ | ✓ | ✓ | ✓ |
| LLDP transmit | ✓ | ✓ | ✓ | ✓ | ✓ |

| Feature | FSW-224D- POE | FSW-224D- FPOE | FSW-248D | FSW-248D- POE | FSW-248D- FPOE |
|---------------------------------|------------------|-------------------|----------|------------------|-------------------|
| LLDP-MED | ✓ | ✓ | ✓ | | ✓ |
| Loop-guard | ✓ | ✓ | ✓ | ✓ | ✓ |
| MAC-IP Bind- ing | | | | | |
| POE-pre-stand- ard detection | ✓ | ✓ | | ✓ | ✓ |
| QOS: 802.1p support | | ✓ | ✓ | ✓ | ✓ |
| SFLOW | ✓ | ✓ | ✓ | ✓ | ✓ |
| Software Rout- ing Only | ✓ | | | | |
| Static BFD | | ✓ | ✓ | ✓ | ✓ |
| Static L3/HW based routing | | ✓ | ✓ | ✓ | ✓ |
| Storm Control | ✓ | ✓ | ✓ | ✓ | ✓ |
| Virtual Wire | | ✓ | ✓ | ✓ | ✓ |
| vlan tag by ACL | | ✓ | ✓ | ✓ | ✓ |
| vlan tag by MAC/IP/802.1x | ✓ | ✓ | ✓ | ✓ | ✓ |

FortiSwitch 400

| Feature | FSW-424D | FSW-424D- POE | FSW-424D- FPOE | FSW-448D | FSW-448D- POE | FSW-448D- FPOE |
|--------------------------|----------|------------------|-------------------|----------|------------------|-------------------|
| 48 port lag sup- port | | | | | | |
| 802.1x port mode | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| Feature | FSW-424D | FSW-424D- POE | FSW-424D- FPOE | FSW-448D | FSW-448D- POE | FSW-448D- FPOE |
|---|----------|------------------|-------------------|----------|------------------|-------------------|
| 802.1x MAC base security mode | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ACL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto module max speed detection & notification | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CPLD Software Upgrade Sup- port for OS | | | | | | |
| DHCP relay fea- ture | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DHCP Snoop- ing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HTTP REST API | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HW based ECMP | | | | | | |
| IGMP Snoop- ing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| IP conflict detection & notification | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| LAG min-max- bundle | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| LLDP transmit | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| LLDP-MED | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Loop-guard | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MAC-IP Bind- ing | | | | | | |

| Feature | FSW-424D | FSW-424D- POE | FSW-424D- FPOE | FSW-448D | FSW-448D- POE | FSW-448D- FPOE |
|---------------------------------|----------|------------------|-------------------|----------|------------------|-------------------|
| POE-pre-stand- ard detection | | ✓ | ✓ | | ✓ | ✓ |
| QOS: 802.1p support | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SFLOW | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Software Rout- ing Only | | | | | | |
| Static BFD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Static L3/HW based routing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Storm Control | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Virtual Wire | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| vlan tag by ACL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| vlan tag by MAC/IP/802.1x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

FortiSwitch 500

| Feature | FSW-524D | FSW-524D-FPOE | FSW-548D | FSW-548D-FPOE |
|--|----------|---------------|----------|---------------|
| 48 port lag support | | | ✓ | ✓ |
| 802.1x port mode | ✓ | ✓ | ✓ | ✓ |
| 802.1x MAC base security mode | ✓ | ✓ | ✓ | ✓ |
| ACL | ✓ | ✓ | ✓ | ✓ |
| Auto module max speed detection & notification | ✓ | ✓ | ✓ | ✓ |
| CPLD Software Upgrade Support for OS | | | | |

| Feature | FSW-524D | FSW-524D-FPOE | FSW-548D | FSW-548D-FPOE |
|--------------------------------------|----------|---------------|----------|---------------|
| DHCP relay feature | ✓ | ✓ | ✓ | ✓ |
| DHCP Snooping | ✓ | ✓ | ✓ | ✓ |
| HTTP REST APIs | ✓ | ✓ | ✓ | ✓ |
| HW based ECMP | ✓ | ✓ | ✓ | ✓ |
| IGMP Snooping | ✓ | ✓ | ✓ | ✓ |
| IP conflict detection & notification | ✓ | ✓ | ✓ | ✓ |
| LAG min-max-bundle | ✓ | ✓ | ✓ | ✓ |
| LLDP transmit | ✓ | ✓ | ✓ | ✓ |
| LLDP-MED | ✓ | ✓ | ✓ | ✓ |
| Loop-guard | ✓ | ✓ | ✓ | ✓ |
| MAC-IP Binding | ✓ | ✓ | ✓ | ✓ |
| POE-pre-standard detection | | ✓ | | ✓ |
| QOS: 802.1p support | ✓ | ✓ | ✓ | ✓ |
| SFLOW | ✓ | ✓ | ✓ | ✓ |
| Software Routing Only | | | | |
| Static BFD | ✓ | ✓ | ✓ | ✓ |
| Static L3/HW based routing | ✓ | ✓ | ✓ | ✓ |
| Storm Control | ✓ | ✓ | ✓ | ✓ |
| Virtual Wire | ✓ | ✓ | ✓ | ✓ |
| vlan tag by ACL | ✓ | ✓ | ✓ | ✓ |
| vlan tag by MAC/IP/802.1x | ✓ | ✓ | ✓ | ✓ |

FortiSwitch 1000

| Feature | FSW-1024D | FSW-1048D |
|--|-----------|-----------|
| 48 port lag support | | ✓ |
| 802.1x port mode | ✓ | ✓ |
| 802.1x MAC base security mode | ✓ | ✓ |
| ACL | ✓ | ✓ |
| Auto module max speed detection & notification | ✓ | ✓ |
| CPLD Software Upgrade Support for OS | ✓ | ✓ |
| DHCP relay feature | ✓ | ✓ |
| DHCP Snooping | ✓ | ✓ |
| HTTP REST APIs | ✓ | ✓ |
| HW based ECMP | ✓ | ✓ |
| IGMP Snooping | ✓ | ✓ |
| IP conflict detection & notification | ✓ | ✓ |
| LAG min-max-bundle | ✓ | ✓ |
| LLDP transmit | ✓ | ✓ |
| LLDP-MED | ✓ | ✓ |
| Loop-guard | ✓ | ✓ |
| MAC-IP Binding | ✓ | ✓ |
| POE-pre-standard detection | | |
| QOS: 802.1p support | ✓ | ✓ |
| SFLOW | ✓ | ✓ |
| Software Routing Only | | |
| Static BFD | ✓ | ✓ |
| Static L3/HW based routing | ✓ | ✓ |

| Feature | FSW-1024D | FSW-1048D |
|---------------------------|-----------|-----------|
| Storm Control | ✓ | ✓ |
| Virtual Wire | ✓ | ✓ |
| vlan tag by ACL | ✓ | ✓ |
| vlan tag by MAC/IP/802.1x | ✓ | ✓ |

FortiSwitch 3000

| Feature | FSW-3032D |
|--|-----------|
| 48 port lag support | |
| 802.1x port mode | ✓ |
| 802.1x MAC base security mode | ✓ |
| ACL | ✓ |
| Auto module max speed detection & notification | |
| CPLD Software Upgrade Support for OS | |
| DHCP relay feature | ✓ |
| DHCP Snooping | ✓ |
| HTTP REST APIs | ✓ |
| HW based ECMP | ✓ |
| IGMP Snooping | ✓ |
| IP conflict detection & notification | ✓ |
| LAG min-max-bundle | ✓ |
| LLDP transmit | ✓ |
| LLDP-MED | ✓ |
| Loop-guard | ✓ |
| MAC-IP Binding | ✓ |

| Feature | FSW-3032D |
|----------------------------|-----------|
| POE-pre-standard detection | |
| QOS: 802.1p support | ✓ |
| SFLOW | ✓ |
| Software Routing Only | |
| Static BFD | ✓ |
| Static L3/HW based routing | ✓ |
| Storm Control | ✓ |
| Virtual Wire | ✓ |
| vlan tag by ACL | ✓ |
| vlan tag by MAC/IP/802.1x | ✓ |

Default STP edge-port state changed to enabled

The default STP edge-port state on all switch interfaces is changed to **enabled**.

This change allows a port to transition directly the forwarding state, and skips the listening and learning stages. When a port is an edge port, it doesn't generate topology changes on link status changes, which results in a more stable network. These are key advantages of RSTP faster convergence and less topology changes. A STP enabled ports still transmits BPDU. When a STP enabled port receives a BPDU, it immediately loses edge port status and becomes a normal spanning tree port. A ports edge-status state can still be disabled if desired by using the following CLI commands:

```
S124DN3W14000095 # config switch interface
S124DN3W14000095 (interface) # edit port9
S124DN3W14000095 (port9) # set edge-port
disabled Disable interface as edge port.
enabled Enable interface as edge port.
```

Connecting multiple FSW-R-112D-POE switches

The FSW-R-112D-POE switch does not support interconnectivity to other FSW-R-112D-POE switches using the PoE ports. Fortinet recommends using the SFP ports to interconnect switches.

Upgrade Information

FortiSwitch 3.5.3 supports upgrading from FortiSwitch 3.5.0 and later.

Cooperative Security Fabric Upgrade

FortiOS 5.4.1 greatly increases the interoperability between other Fortinet products. This includes:

- FortiClient 5.4.1
- FortiClient EMS 1.0.1
- FortiAP 5.4.1
- FortiSwitch 3.4.2

The upgrade of the firmware for each product must be completed in a precise order so the network connectivity is maintained without the need of manual steps. Customers must read the following two documents prior to upgrading any product in their network:

- *Cooperative Security Framework - Upgrade Guide*
- *FortiOS 5.4.0 to 5.4.1 Upgrade Guide for Managed FortiSwitch Devices*

This document is available in the Customer Support Firmware Images download directory for FortiSwitch 3.4.2.

Product Integration and Support

FortiSwitch 3.5.3 support

The following table lists 3.5.3 product integration and support information.

| | |
|--------------------|---|
| Web browser | <ul style="list-style-type: none">• Microsoft Internet Explorer version 11• Mozilla Firefox version 52• Google Chrome version 56 <p>Other web browsers may function correctly, but are not supported by Fortinet.</p> |
|--------------------|---|

**FortiOS
(FortiLink Support)**

- 5.4.1 and later
FortiSwitch must be upgraded first before upgrading FortiOS. Please read the *Upgrade Information > Cooperative Security Fabric Upgrade* section in this document.
- 5.4.0
FortiSwitch models: FSW-108D-POE, FSW-124D, FSW-124D-POE, FSW-224D-POE, FSW-224D-FPOE, FSW-248D-POE, FSW-248D-FPOE, FSW-424D, FSW-424D-POE, FSW-424D-FPOE, FSW-448D, FSW-448D-POE, FSW-448D-FPOE, FSW-524D, FSW-524D-FPOE, FSW-548D, FSW-548D-FPOE, FSW-1024D, FSW-1048D, FSW-3032D, FSR-112D-POE

FortiGate models: FG-60D, FG-60D-POE, FG-90D, FG-90-POE, FG-100D, FG-140D, FG-140D-POE, FG-140D-POE-T1, FG-200D, FG-240D, FG-280D, FG-280D-POE, FG-600C, FG-800C, FG-1000C, FG-1500D, FG-1200D, FG-3700D, FG-3700DX

FortiWiFi models: FWF-60D, FWF-60D-POE, FWF-90D, FWF-90D-POE
- 5.2.3 and later
FortiSwitch models: FSW-108D-POE, FSW-124D, FSW-124D-POE, FSW-224D-POE, FSW-224D-FPOE, FSR-112D-POE

FortiGate models: FG-60D, FG-90D, FG-100D, FG-140D, FG-200D, FG-240D, FG-280D, FG-600C, FG-800C, FG-1000C, FG-60D-POE, FG-90D-POE, FG-140D-POE, FG-140D-POE-T1, FG-280D-POE

FortiWiFi models: FWF-60D, FWF-60D-POE, FWF-90D, FWF-90D-POE
- 5.2.2
FortiSwitch models: FSW-224D-POE

FortiGate models: FG-90D, FG-90D-POE, FG-100D, FG-140D, FG-140D-POE, FG-140D-POE-T1, FG-200D, FG-240D, FG-280D, FG-280D-POE, FG-600C, FG-800C, FG-1000C

FortiWiFi models: FWF-90D, FWF-90D-POE

Resolved Issues

The following issues have been fixed in 3.5.3. For inquiries about a particular bug, please contact [Customer Service & Support](#).

| Bug ID | Description |
|--------|--|
| 403226 | Cleanup internal certificates (Replace with new SHA256 signed cert from entrust) |
| 405123 | Upgrade OpenSSL lib for misc security issues. |
| 403985 | SPI-NOR based platform image upgrade process too slow and consume too much memory. |
| 393518 | qsfp: mismatching port-id between driver and user-space on platform 548D. |
| 405504 | Support 64 characters username in all authentication modules. |
| 409612 | Allow ports with igmp-snooping enabled into virtual wires, but reject VLANs with IGMP snooping enabled. |
| 405717 | The interface goes int default when increasing power usage onto the interface. |
| 413228 | L3 pkts not coming to kernel when sflow is enabled on the switch interface. |
| 311065 | TFTP performance in OS download. |
| 383506 | FSW Standalone: EAP tunnel is terminated at Authenticator(FSW) instead of at Auth-Server (FAC). |
| 405123 | FortiSwitch 3.5.3 is no longer vulnerable to the following CVE-References: <ul style="list-style-type: none">• 2017-3731• 2017-3730• 2017-3732• 2016-7055 |

Known Issues

The following known issues have been identified with 3.5.3. For inquiries about a particular bug or to report a bug, please contact [Fortinet Customer Service & Support](#).

| Bug ID | Description |
|--------|--|
| 377609 | PoE port does not reboot when you remove and insert the link. |
| 393845 | Newly-created static MACs are missing from the MAC address table. |
| 393856 | LLDP-MED does not time out quickly-enough on FSR124D. |
| 393622 | get switch dhcp-snooping status does not report correctly snoop-enabled-vlans. |
| 393186 | FSW does NOT allow timezones 00, 76, 82 and 86. |
| 408113 | The local user failed authentication when eap-passthru is enabled by default. Workaround: The user can change eap-passthru to disabled. |
| 414802 | IGMP-Snooping: Traffic flooding to newly assigned VLAN source port. Workaround: Create the VLAN and enable IGMP-S/DHCP-S before configuring the port. |
| 414570 | 802.1 does not clean up completely when adding 802.1x interface to the trunk port. Workaround: Clear the 802.1x configuration before migrating to the trunk. |
| 410200 | 802.1x: VLAN programming received from a RADIUS server can be overwritten by CLI configuration. Workaround: Do NOT manually change the VLAN assignment on a port that is in an authentication state. |

| Bug ID | Description |
|--------|---|
| 414060 | <p>When 802.1x is enabled with DHCP Snooping, DHCP Discover could leak to the server.</p> <p>Note: DHCP could leakage to the server/cserver could occur when .1x MAC-based mode is enabled. You could lose connectivity because of that. We recommend using port-based if DHCP blocking and .1x is critical to your business.</p> <p>Note: The 802.1x MAC-based mode is supported on the following models:</p> <ul style="list-style-type: none">• FS-108D-POE• FS-224D-POE• FSR-112D-POE |
| 415380 | <p>When DHCP-Snooping is enabled, DHCP traffic could be inadvertently blocked preventing clients from receiving DHCP-assigned addresses when at least one ingress or ingress port is a trunk (Link Aggregate Group).</p> <p>Workaround: Disable DHCP-Snooping on the VLAN.</p> |



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